O to AT lec. 10/15/96

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Oil or Hazardous Substances Spill or Discharge Report

O to AT by IOMail w/ attachments on ____ by ____

DISCHARGE OR SPILL:

Start Date:	10/12/96	Time:	05:15
End Date:	10/12/96	Time:	

Reported by **Steve Milam**

Representing **Diamond Shamrock**

Phone No. **(512) 786-2536** Ext. ____

Phone No. ____ Ext. ____

TNRCC NOTIFICATION:

Date:	10/12/96	Time:	07:06

Region/Aus.(00) **00**

Coordinator **Steve Thompson - JCL**

MATERIAL SPILLED:

Desc. **Gasoline**

Material Code **1012**

AMOUNT SPILLED:

Amount **2036** (●) bbl ( ) gal ( ) yd3 ( ) lbs

CLASSIFICATION:

(●) 001 Oil - Major >240B/10,000G
( ) 002 Oil - Medium >24B/1,000G
( ) 003 Oil - Minor <24B/1,000G
( ) 004 Hazmat - Major
( ) 005 Hazmat- Minor
( ) 006 Other Substance
( ) SARA Title III

LOCATION:

Description **Tank S-336, Diamond Shamrock, Three Rivers Refinery, 301 Leroy**

Lat. ____ Long. ____ Reg. No. **14** *Corpus Christi*

County **Live Oak** Code **149**

Media Effected **ALW** A=Air, L=Land, W=Water

RECEIVING WATER:

Desc. **Grounwater Contamination**

Basin Name **Nueces River Basin**

Segment No. **2106** ☒ Air Release?

Amount in Water **Unknown** ( ) bbl ( ) gal ( ) yd3 ( ) lbs

RESPONSIBLE PARTY:

Permit/Reg/Acct # **SW31553**

EPA Number ____

Resp. Party **Diamond Shamrock**

Address **301 Leroy St.**

City **Three Rivers** State **TX** Zip **78071**

Phone No. **(512) 786-2536** Ext ____

Contact Name **Lyn Holmes**

Phone No. **(512) 786-8286** Ext ____

ORIGIN:

(●) 001 Fixed Site -Inland
( ) 002 Fixed Site -Marine
( ) 003 Pipeline
( ) 004 Marine Vehicle
( ) 005 Highway Vehicle
( ) 006 Rail Vehicle
( ) 007 Other
( ) 008 Abandoned Drums
( ) UST LUST

CAUSE:

( ) 001 Corrosion
( ) 002 Equipment Failure
(●) 003 Human Error
( ) 004 Vandalism
( ) 005 Intentional Discharge
( ) 006 Act of God
( ) 007 Other
( ) 008 Continuous Release

☒ Interim Report ☐ Final Report

Notes/Description:

This spill incident was caused when the high level alarm on tank S-336 was disabled and the valves between tanks S-336 and tank 40 were not correctly aligned for product transfer. This series of events caused the release of 2,000 barrels of unleaded gasoline to the soil, air and groundwater. This tank is located approx. 75 yards from the Nueces River. Monitor well 154 has had an increase of 2.38 ft. of phase separated hydrocarbons (gasoline) since the incident occurred. This indicates a direct and immediate impact to the groundwater in the vicinity of the spill with a potential threat to the Nueces River. Approximately 20 rolloff boxes have been filled with contaminated soil that was impacted during the spill event. DS personnel have increased the pumping rate on recovery wells in the vicinity of the spill. DS personnel are cooordinating remedial actions with R-14 personnel and inspecting the Nueces River at least once each day to determine any impact to the river from the incident. This incident also [illegible]

Reports/Actions Being Taken:

Initial abatement and remedial action has been completed and the incident will involve long term oversight and remediation of soil and groundwater impacted during the incident.

CLEANUP:

- ○ 001 Complete
- ◉ 002 Underway
- ○ 003 Inadequate
- ○ 004 Letter Req.
- ○ 005 Referred to Enf.
- ○ 006 State-funded
- ○ 007 None

Date of letter/report req. from RP: _____ Date letter/report received: _____

Date referred to Enforcement: _____

Date of state-funded resp. action: _____

Anticipated Remed Comp. Date: _____

Cleanup Requested

- ○ RRR Std 1
- ○ RRR Std 2
- ○ RRR Std 3

INSPECTED BY (JURISDICTION)/TECHNICAL ASSISTANCE BY:

Agency	Investigator	Date
TNRCC	Lewellin	10/12/96

OTHERS NOTIFIED:

Agency	Date	Person Notified	Person Making Notification
TNRCC CO/ERT	10/12/96	Steve Thompson	Steve Milam
TNRCC R14/ERT	10/12/96	S. Contreras	Steve Thompson
TNRCC CO/OAQ	10/14/96	Max Turner	Steve Thompson
Live Oak LEPC	10/13/96	Judge Huff	Steve Milam -DS

☑ Air Program notified?

Additional comments, correspondence, photographs, etc. should be attached to the printed form.

J. Lewellin 10/15/96 — Originator / Date

J. [illegible] Spill Coordinator — Approved by / Date 10/15/96

(H) EPA

P

TEXAS WATER COMMISSION

SOLID WASTE INSPECTION REPORT
For RCRA Permitted Facilities

INSPECTION COVERSHEET

TWC Reg.: 31553

HW Permit: 50100

Issued: Aug 25, '87

C.O. Use Only
0491 BAB.

TWC District 12

EPA ID No. TXD990709966 Commercial Waste Facility____ Govt. Facility____

NAME OF PERMITTEE DIAMOND SHAMROCK REFINING & MARKETING CO

MAILING ADDRESS PO BOX 696000, SAN ANTONIO TEX 78269 Tel. 512-641-8862

SITE LOCATION 301 LEROY ST., THREE RIVERS, TEX 78071 Tel. 512-786-2536

COUNTY LIVE OAK TYPE OF BUSINESS PETROLEUM REFINERY

OPERATIONAL STATUS: ACTIVE

CURRENT WASTE MANAGEMENT (Haz.-"H"; Class I Nonhaz.-"NH"; Class II-"II"; Class III-"III")

Generate H, NH, II, III Treat H, NH, II Store H, NH Dispose NH, II Transport____

CLOSED AS LANDFILL IN 1988

HW Permitted Facilities: (circle)	C	T	(SI)	WP	(LT)	LF	I	TT	TR	O
HW Interim-Status Facilities:	C	(T)	(SI)	WP	LT	LF	I	TT	TR	O
HW Permit-Exempt Facilities:	(SA)	(C)	(T)							
Non-Hazardous Waste Facilities:	C	T	(SI)	WP	(LT)	(LF)	I	TT	TR	O

NEVER UTILIZED FOR HAZ. WASTE

ENFORCEMENT STATUS:____

TYPE OF INSPECTION: (circle) (CEI) GW CL CD SA FO OT REC REV

Inspector's Name and Title C. RUSSELL LEWIS, GEOLOGIST

Inspection Participants STEVE MILAM, SITE ENVIRONMENTAL COORDINATOR

Date(s) of Inspection FEB 27 & 28, 1991

Signed: C. Russell Lewis
Inspector Date

Approved: C. Russell Lewis FOR CHIP VOLZ
District Manager

RECEIVED
APR 1

DIAMOND SHAMROCK - THREE RIVERS REFINERY

REGISTRATION #31553

PERMIT HW-50100

CONTENTS

GENERAL COMMENTS

The Diamond Shamrock Three Rivers Refinery was issued hazardous waste permit HW-50100 on August 25, 1987. The permit authorizes operation of an onsite land treatment unit (permit units II B.1.-5.) and a hazardous waste surface impoundment known as the South Equalization Pond (permit unit II B 6). According to company officials, hazardous waste was not managed in the LTU prior to permit issuance, and after permit issuance the company decided not to manage hazardous waste in the unit. The LTU is still being used for treatment and disposal of nonhazardous refinery wastes. The South Equalization Pond was certified closed in accordance with the approved closure plan in February 1989.

Diamond Shamrock currently has the following five hazardous waste tanks at the refinery:

1. Tank 905 - "90 day" spent caustic tank.

2. Tank 903 - Interim status spent caustic tank.

3. Tank 904 - Inactive interim status spent caustic tank which received TWC closure plan approval May 30, 1990.

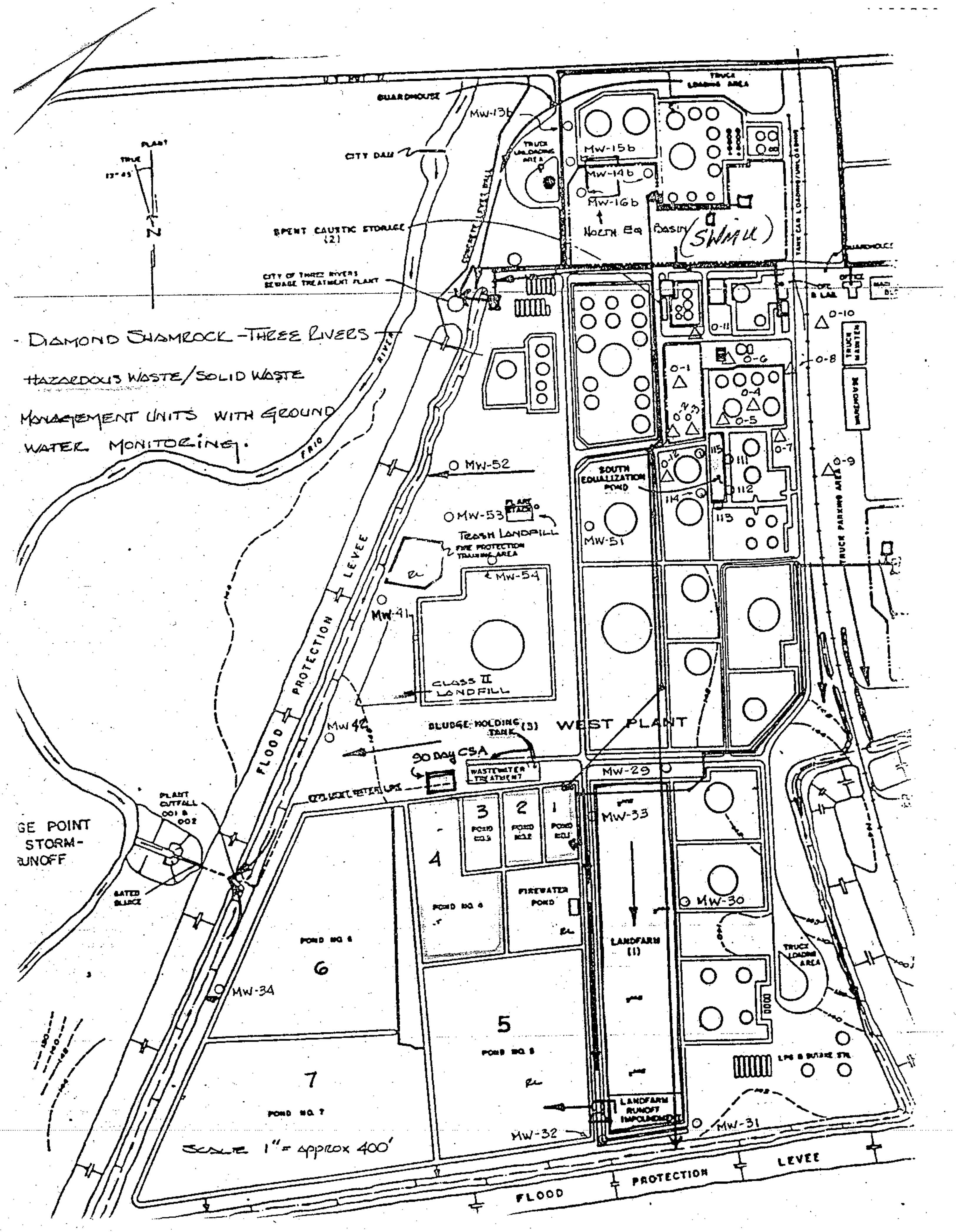
4. Tank 6805 (new) - Interim status tank for storage of listed oily wastes (K048, K049, K051).

5. Tank 6805 (old) - Inactive interim status tank for storage of listed oily wastes which received TWC closure plan approval May 30, 1990.

Since the September 25, 1990 effective date for TC, Diamond Shamrock has operated four hazardous waste surface impoundments (Wastewater Ponds 1-4) which contain D018.

Permit Provision VIII requires that Diamond Shamrock conduct a Remedial Investigation for seven specific solid waste management units. The RFI Workplan for the RI was approved by TWC letter dated July 30, 1990. The letter specified completion of the investigation and final report within 9 months (by May 1, 1991) as indicated in the workplan. As of March 1, 1991, the company had not initiated the activities specified in the Remedial Investigation Workplan.

Compliance Plan CP-50100 addresses only one unit at the refinery, the closed North Equalization Basin. Provision III B.1. of CP-50100 requires that a RFI be conducted at the North Equalization Basin to "determine the lateral and vertical extent of ground water and soil contamination and to clearly delineate any plume of contaminants in the vicinity of the North Equalization Basin". The RFI workplan, which included provisions for delineation of the contaminant plume, was approved January 11, 1990 and the RFI Implementation Report (Vol. I & II) was submitted to TWC July 10, 1990. The report found hazardous constituents in all upgradient and downgradient wells, but found no evidence of statistically significant increases in constituent concentrations between upgradient and downgradient wells. The report does not make the determinations required by Provision III.B.1 referenced above.


- DIAMOND SHAMROCK - THREE RIVERS
HAZARDOUS WASTE/SOLID WASTE
MANAGEMENT UNITS WITH GROUND
WATER MONITORING.
PLANT
TRUE
N
GUARDHOUSE
TRUCK LOADING AREA
MW-13b
CITY DAM
TRUCK UNLOADING AREA
MW-15b
MW-14b
MW-16b
North Eq Basin (SWMU)
SPENT CAUSTIC STORAGE (2)
CITY OF THREE RIVERS SEWAGE TREATMENT PLANT
FRIO RIVER
OFFICE
OFC & LAB
O-1
O-2
O-3
O-4
O-5
O-6
O-7
O-8
O-9
O-10
O-11
O-12
111
112
113
114
115
TRUCK MAINTEN
WAREHOUSE
TRUCK PARKING AREA
MW-52
SOUTH EQUALIZATION POND
PLANT STACK
MW-53
Trash Landfill
FIRE PROTECTION TRAINING AREA
MW-51
MW-54
MW-41
CLASS II LANDFILL
FLOOD PROTECTION LEVEE
MW 42
SLUDGE HOLDING TANK (3)
WEST PLANT
90 Day CSA
WASTEWATER TREATMENT
MW-29
PLANT OUTFALL 001 & 002
GE POINT STORM-
RUNOFF
GATED SLUICE
3
2
1
4
POND NO. 4
FIREWATER POND
MW-33
MW-30
LANDFARM (1)
TRUCK LOADING AREA
6
POND NO. 6
MW-34
5
POND NO. 5
7
POND NO. 7
LPG & BUTANE STR.
LANDFARM RUNOFF IMPOUNDMENT
MW-32
MW-31
Scale 1" = approx 400'
FLOOD PROTECTION LEVEE

***

7. Operating record reflects the following:

a. Description and quantity of each hazardous waste received and method and date of treatment, storage or disposal. N/A ✓ YES ___ NO ___

b. Location and quantity of each hazardous waste within the facility. N/A ___ YES ✓ NO ___

c. Records and results of waste analyses. N/A ___ YES ✓ NO ___

d. Summary reports of all incidents that require implementing the contingency plan. N/A ✓ YES ___ NO ___

e. Records and results of inspections. N/A ___ YES ✓ NO ___

f. Groundwater monitoring, testing and analytical data where required by 40 CFR Part 264, Subpart F. N/A ___ YES ✓ NO ___

g. For off-site facilities, notices of current permit status and authority. N/A ✓ YES ___ NO ___

h. Closure cost estimates. N/A ___ YES ✓ NO ___

i. Post closure cost estimates. N/A ___ YES ✓ NO ___

8. Owner/operator has submitted the appropriate reports:

a. Unmanifested waste report. N/A ✓ YES ___ NO ___

b. Releases, fires, explosions. N/A ___ YES ___ NO ✓

c. Facility closures. N/A ___ YES ✓ NO ___

COMMENTS: DURING AN ANNUAL WASTEWATER INSPECTION IN NOV 1990 TWC DISCOVERED THAT A SPILL OF DOIB WASTEWATER HAD RECENTLY OCCURRED WHEN THE API SEPARATOR OVERFLOWED DURING A POWER OUTAGE. THE COMPANY NEVER NOTIFIED TWC OF THE SPILL. DURING THIS SOLID WASTE INSPECTION IT WAS LEARNED THAT THE SPILL HAD NEVER BEEN CLEANED UP. THE STAINED, CONTAMINATED SOIL HAD BEEN COVERED WITH CALICHE AND LEFT IN PLACE. SAMPLES OF THE SOIL WERE COLLECTED ON FEB 6, 1991 (3 MONTHS AFTER THE SPILL) AND ANALYZED FOR TCLP CONSTITUENTS. THE SPILL RESIDUE/SOIL WAS DETERMINED TO BE NONHAZARDOUS BUT NO ATTEMPT WAS MADE TO DETERMINE TOTAL CONSTITUENT CONCENTRATIONS REMAINING IN THE SOIL. SEE TWC WASTEWATER INSPECTION REPORT DATED 1-14-91 FOR PERMIT WQ-01353 FOR PHOTOS & DETAILS OF SPILL.

TWC # 31553

PERMIT CKLIST

PERMITTED FACILITIES STANDARDS CHECKLIST (ADDENDUM)

NOTE: This addendum page is to be used along with the current "Permitted Facilities Standards"of 12/87. Please fill out as appropriate, and attach to the "Permitted Facilities Standards" checklist before the comments page.

SECTION E -- Waste Analysis (264.13 & 268.7). ***

2. g. The methods which will be used to meet the additional waste analysis requirements of the land disposal restrictions? N/A___ YES___ NO ✓

SECTION J -- Operating Record (264.73 & 268.50).

2. For restricted wastes that exceed treatment standards, do operating records for hazardous waste tanks show that wastes are stored for less than one year, by one of the following methods:

   a. Have tanks been emptied at least once per year? N/A___ YES ✓ NO___

   b. Have volumes of restricted waste been removed from tanks at least equal to the tank volume each year? N/A___ YES ✓ NO___

3. If storage of restricted wastes exceeding treatment standards has been for greater than one year, can the owner/operator demonstrate that the purpose of such storage is solely for accumulating sufficient quantities of restricted waste to facilitate proper recovery, treatment, or disposal? N/A ✓ YES___ NO___

*** An entry in this column indicates corrective action or comment is needed.

CME

III, 2

TWC Reg. No. 31553
PERMIT No HW-50100
CP-50100

TEXAS WATER COMMISSION

~~Operation and Maintenance (O&M) Report~~ or ~~Site~~
Comprehensive GW Monitoring Evaluation (CME)

INSPECTION COVER SHEET

C.O. Use Only
0289 SAP.
Data Entry Date

EPA ID No. [redacted]

NAME OF COMPANY [redacted] REFINING & MARKETING CO

SITE ADDRESS 301 LEROY ST, THREE RIVERS, TEX Tel 512-786-2536

COUNTY LIVE OAK TYPE OF INDUSTRY PETROLEUM REFINING

Current GW Monitoring Status: SOUTH EQUALIZATION BASIN - pDM

(Specify for each Waste Management Area "WMA") NORTH EQUALIZATION BASIN - pCM

Inspection Information:

Inspector(s) C. RUSSELL LEWIS Date(s) DEC. 19, 1988

Participants STEVE MILAM - DIAMOND SHAMROCK

Type of Inspection (check) O&M___ SA___ CME ✓

Evaluation:	**S**	**U**
Technical Review	___	✓
Sampling Procedures - NOT OBSERVED	___	___
Chain-of-Custody	___	✓
Analytical Procedures	___	✓
QA/QC	___	✓
Record keeping and Response	___	✓

S=Satisfactory U=Unsatisfactory

Signed: C. Russell Lewis
Inspector
Date: January 18, 1989

Signed: Clio Vick
District Manager
Date: January 18, 1989

Signed: Wendy J. Reynolds
Reviewer
Date: 1/31/89

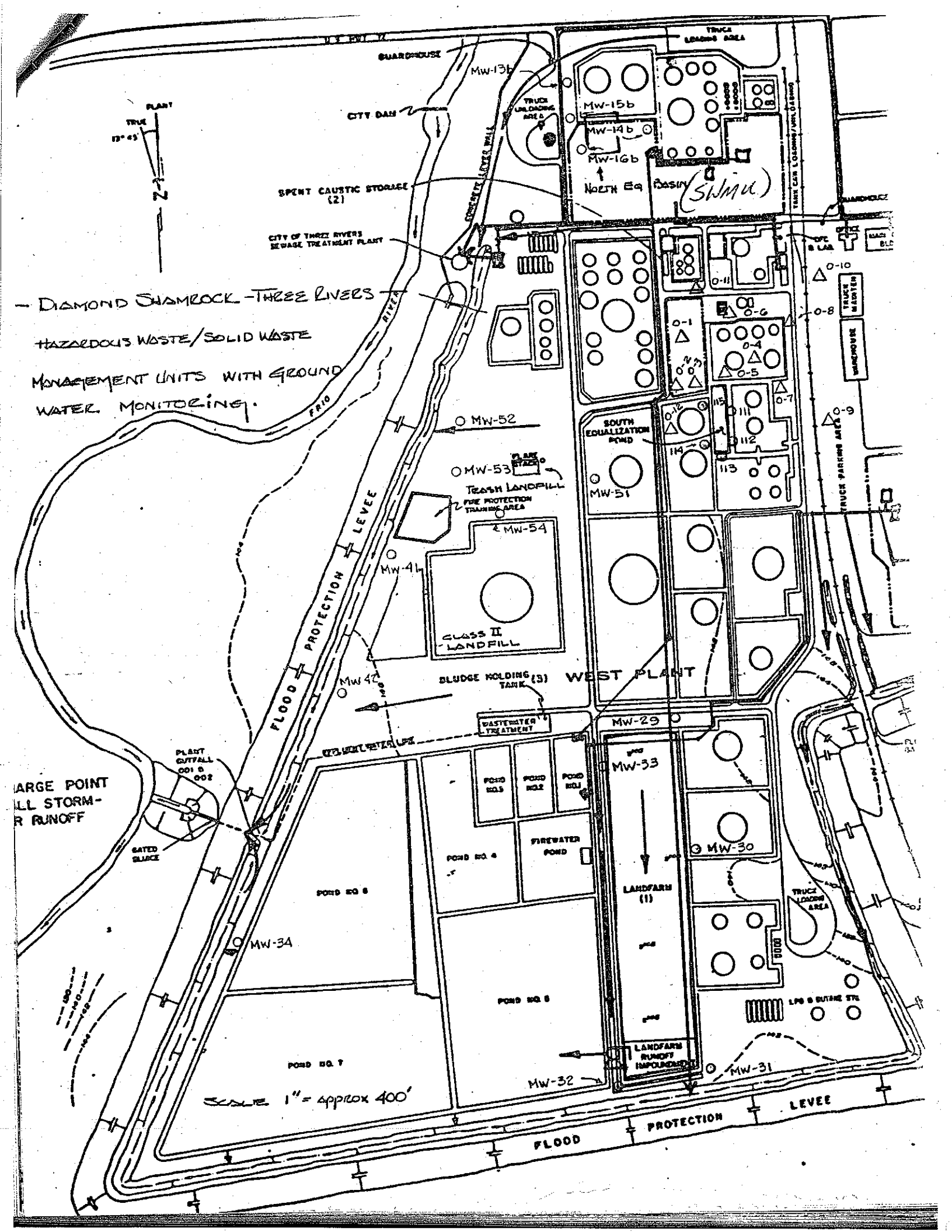
JAN 20 89

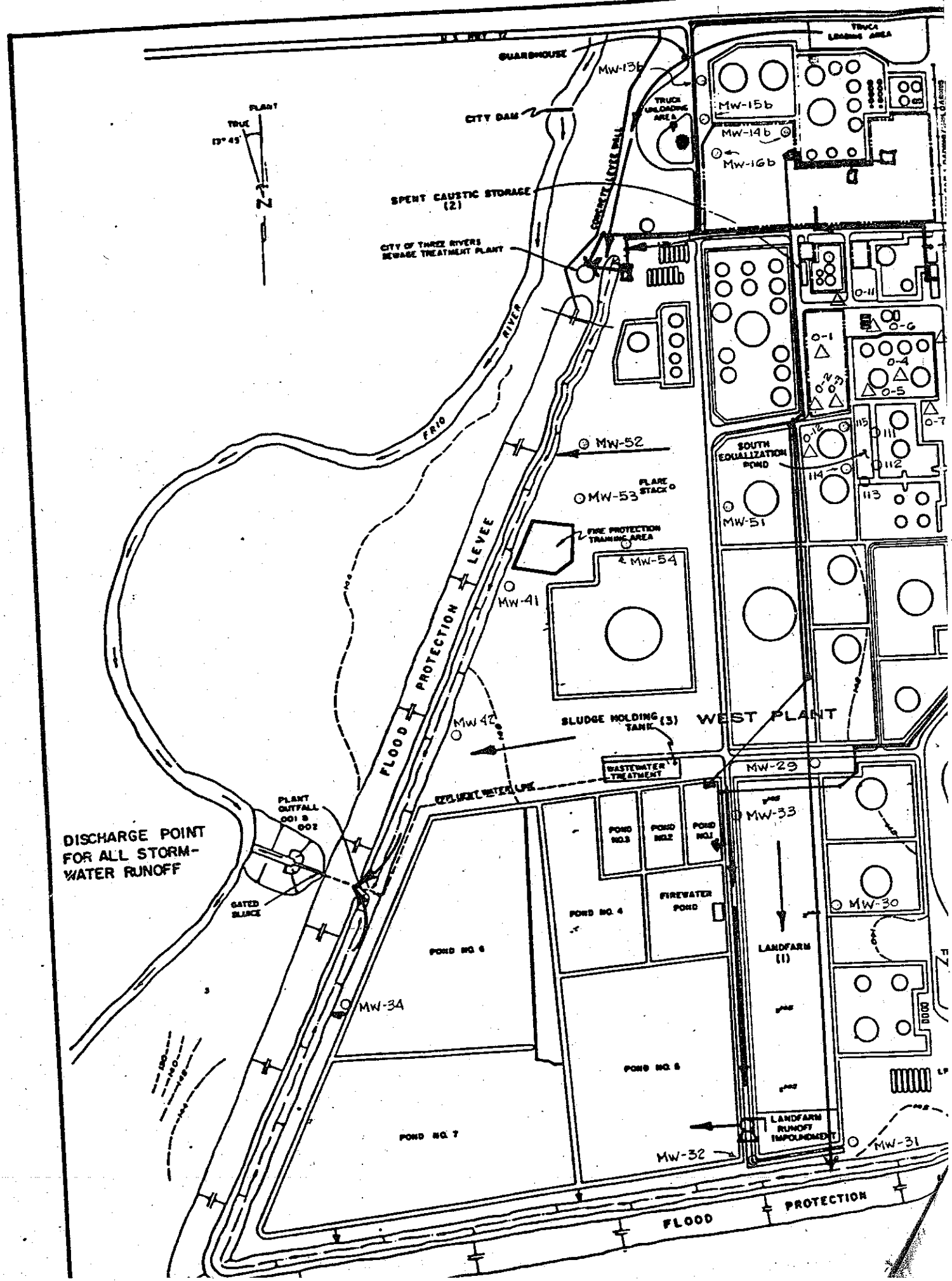
PSL 2/1/89

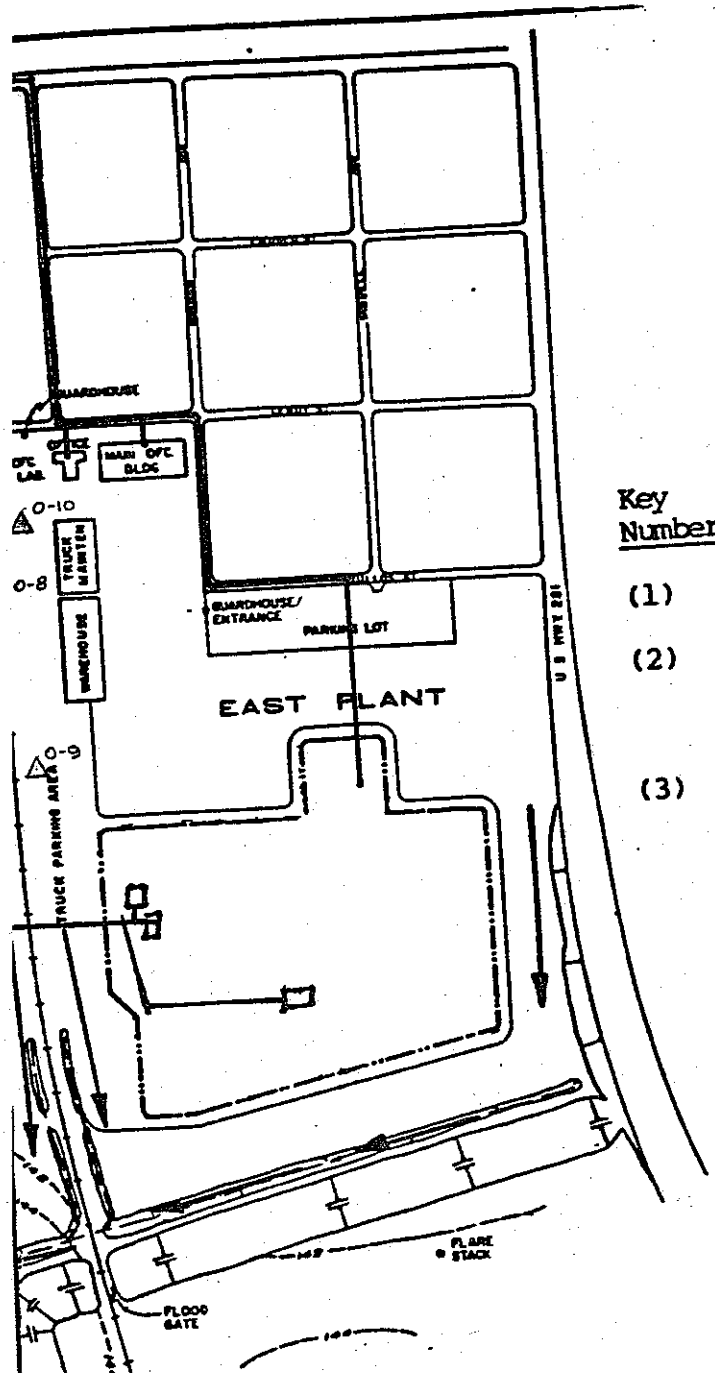
12/87

Diamond Shamrock Refining and Marketing Company
Three Rivers Refinery
SW # 31553 HW-50100

Contents


– DIAMOND SHAMROCK – THREE RIVERS –
HAZARDOUS WASTE/SOLID WASTE
MANAGEMENT UNITS WITH GROUND
WATER MONITORING.
PLANT
TRUE
13° 45'
2-3
GUARDHOUSE
MW-13b
CITY DAM
TRUCK UNLOADING AREA
MW-15b
MW-14b
MW-16b
NORTH EQ BASIN (SWMU)
TRUCK LOADING AREA
SPENT CAUSTIC STORAGE (2)
CRESCENT LOWER MILL
CITY OF THREE RIVERS SEWAGE TREATMENT PLANT
FRIO RIVER
MW-52
MW-53
PLANT STACK
TRASH LANDFILL
FIRE PROTECTION TRAINING AREA
MW-54
MW-41
CLASS II LANDFILL
MW-42
SLUDGE HOLDING TANK (3)
WEST PLANT
WASTEWATER TREATMENT
MW-29
MW-33
MW-30
SOUTH EQUALIZATION POND
MW-51
TRUCK PARKING AREA
TRUCK WASHRACK
WAREHOUSE
0-1
0-2
0-3
0-4
0-5
0-6
0-7
0-8
0-9
0-10
0-11
0-12
111
112
113
114
115
PLANT OUTFALL 001 & 002
GATED SLUICE
FLOOD PROTECTION LEVEE
POND NO. 3
POND NO. 2
POND NO. 1
POND NO. 4
FIREWATER POND
POND NO. 6
POND NO. 5
POND NO. 7
MW-34
LANDFARM (1)
LANDFARM RUNOFF IMPOUNDMENT
MW-32
MW-31
LPG & BUTANE STR.
SCALE 1" = Approx 400'
FLOOD PROTECTION LEVEE


GUARDHOUSE
MW-13b
TRUCK LOADING AREA
MW-15b
MW-14b
MW-16b
TRUCK UNLOADING AREA
CITY DAM
CONCRETE LEVEE WALL
SPENT CAUSTIC STORAGE (2)
CITY OF THREE RIVERS SEWAGE TREATMENT PLANT
PLANT TRUE 13° 45'
FRIO RIVER
MW-52
MW-53
FLARE STACK
SOUTH EQUALIZATION POND
MW-51
FIRE PROTECTION TRAINING AREA
MW-54
MW-41
FLOOD PROTECTION LEVEE
MW-42
SLUDGE HOLDING TANK (3)
WEST PLANT
WASTEWATER TREATMENT
MW-29
EFFLUENT WATER LINE
PLANT OUTFALL 001 & 002
DISCHARGE POINT FOR ALL STORM-WATER RUNOFF
GATED SLUICE
POND NO. 3
POND NO. 2
POND NO. 1
MW-33
FIREWATER POND
POND NO. 4
MW-30
LANDFARM (1)
POND NO. 6
MW-34
POND NO. 5
POND NO. 7
LANDFARM RUNOFF IMPOUNDMENT
MW-32
MW-31
FLOOD PROTECTION
0-1
0-2
0-3
0-4
0-5
0-6
0-7
0-11
0-12
111
112
113
114
115



—LEGEND—

PROCESS AREA BOUNDARIES

STORMWATER DRAINAGE PATTERN

CONTOUR INTERVAL

SPOT ELEVATION

HAZARDOUS WASTE MANAGEMENT FACILITIES

Key Number	Descrip.	Facility Size	Hazardous Wastes Managed (EPA I.D. Number)
(1)	Landfarm	8.8 acres	K048, K049, K051, K052
(2)	Spent Caustic Storage	43,744 gal.	D002
(3)	Sludge Holding Tank	60 cu.yd.	K048

CITY SEWER SYSTEM

PLANT SEWER SYSTEM TO LIFT STATION AND CITY S.T.P.

STORMWATER DRAINAGE (BELOW GRADE)

SEPTIC TANK SYSTEM

PROCESS SEWER SYSTEM (ABOVE AND BELOW GRADE, 3 LINES FOLLOW SAME PATH FROM EAST PLANT UNDER RAILROAD TRACKS)

— DIAMOND SHAMROCK WELL LOCATIONS —

O MONITOR WELLS

△ HYDROCARBON DELINEATION WELLS

DRAWING NO. 1

GENERAL TOPOGRAPHIC PLOT PLAN

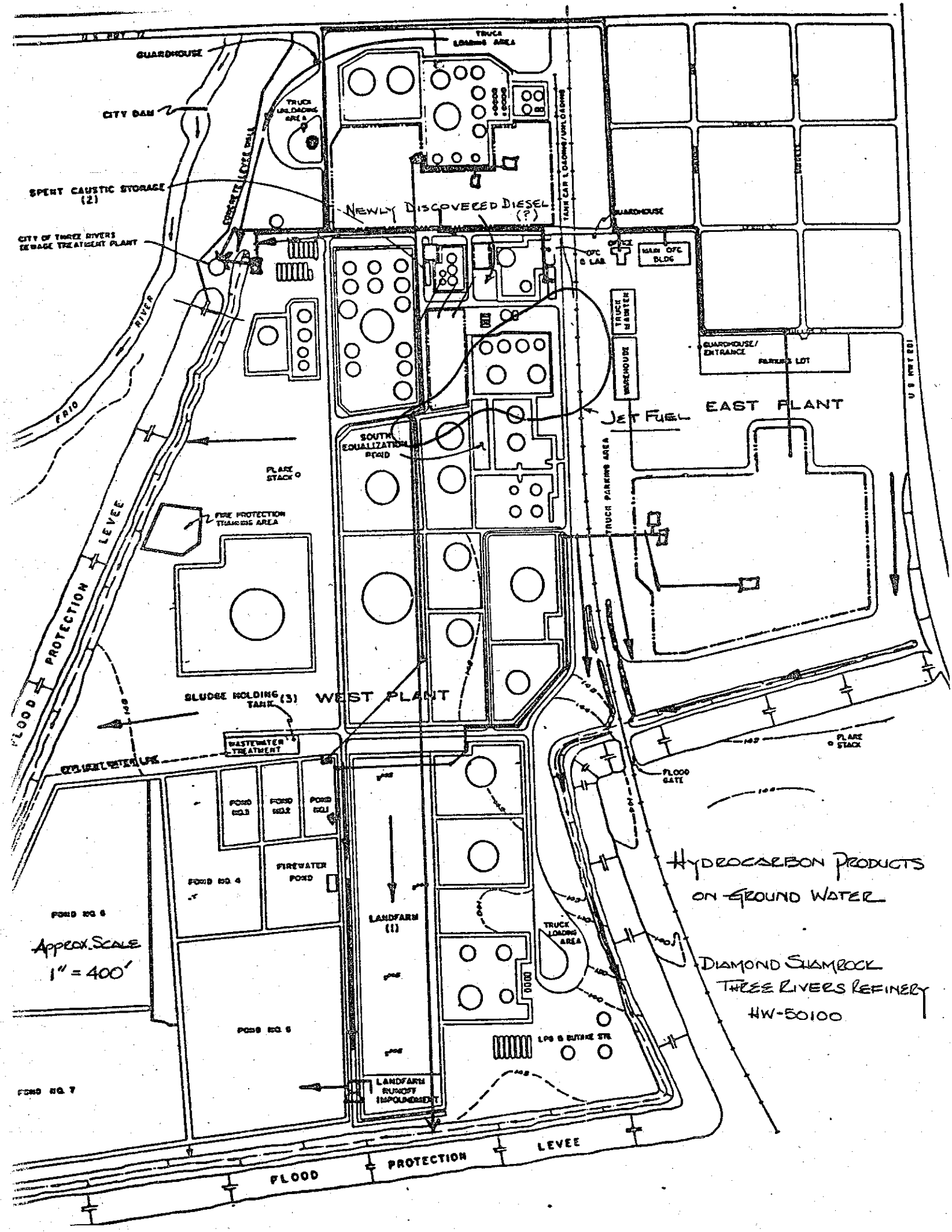
WITH PROCESS AND SEWER LINES

0 200 400 600 800 1000

SCALE IN FEET

DIAMOND SHAMROCK R&M CO.
THREE RIVERS REFINERY

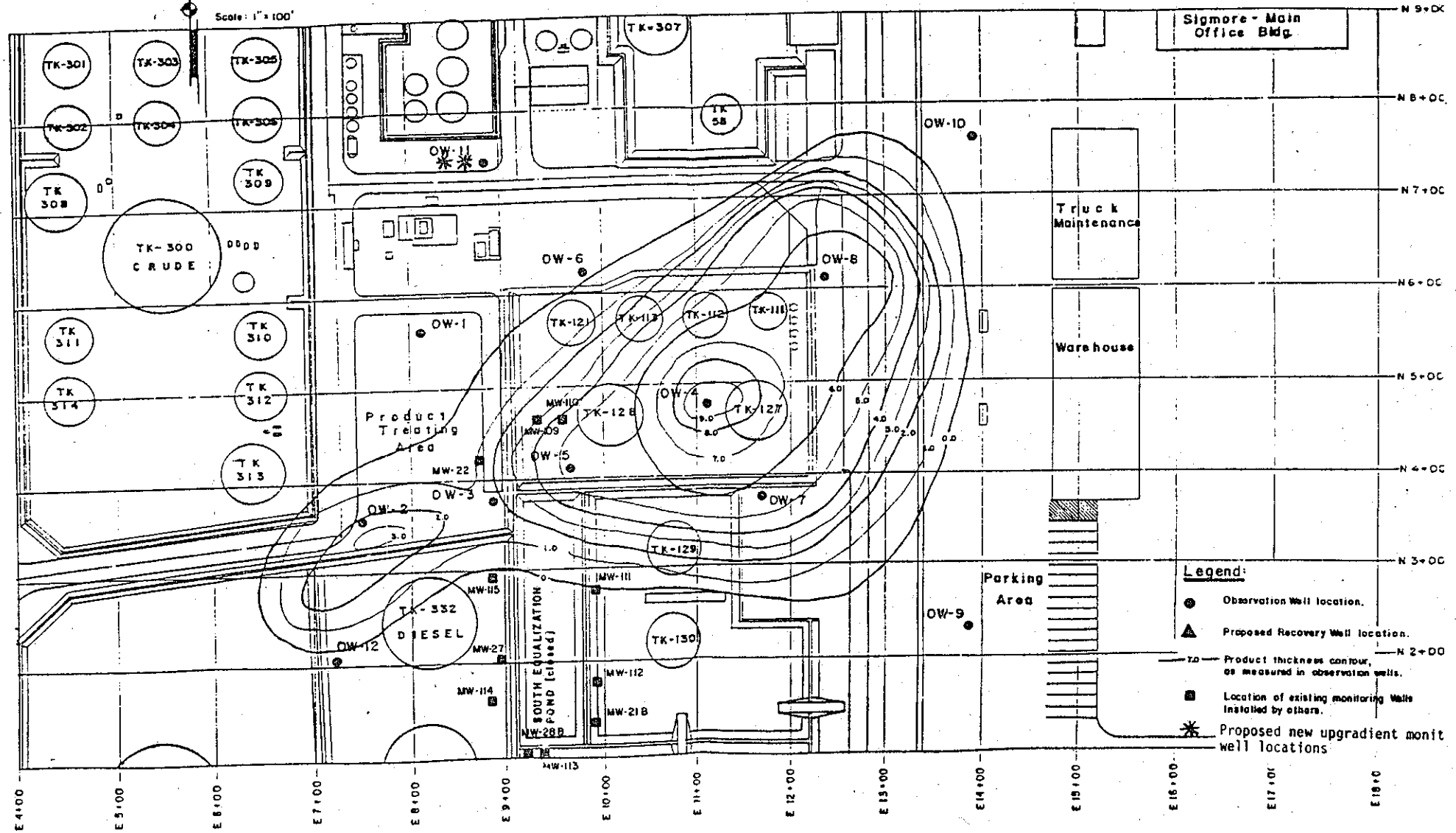
ERM-Southwest, Inc.



Hydrocarbon Products on Ground Water

Approx. Scale 1" = 400'

Diamond Shamrock
Three Rivers Refinery
HW-50100



9-107-88	Chen & Associates	ISOPACH MAP, HYDROCARBON PRODUCT THICKNESS CONTOURS	DIAMOND SHAMROCK, THREE RIVERS	Fig. 1

January 25, 1993

Mr. Allan A. Griggs
Diamond Shamrock
P.O. Box 696000
San Antonio, TX 78269-6000

RE: Hydrocarbon Contamination Found at Well MW-115, Diamond Shamrock Three Rivers Refinery, Three Rivers, Texas

Dear Mr. Griggs:

At the request of Diamond Shamrock, personnel from Applied Earth Sciences, Inc. (AES) visited the Three Rivers Refinery January 11 and 12, 1993. During the site visit fluid levels were measured in the west central portion of the refinery and two free-phase hydrocarbon samples collected. The work was undertaken in an effort to determine whether or not a free-phase hydrocarbon plume is a possible source of hydrocarbon contamination detected at Well MW-115. The following is a description of the work performed and a preliminary discussion of the results.

Fluid Level Measurement

On January 12, 1993 fluid levels were measured in twenty-one wells located in the west central portion of the refinery. Figure 1 is a map of the area showing the well locations.

The measurements were made with an ORS Interface probe. The probe distinguishes between free-phase hydrocarbon and water, giving a distinct signal for each. The probe tape is marked in increments of 1/100th of a foot. The probe and tape were thoroughly cleaned between wells to minimize the possibility of any cross-contamination.

- Ground Water Elevations

Ground water elevations in select wells were plotted to determine the direction of ground water flow. Figure 2 is a map of the site showing the ground water elevations contoured at an interval of one foot. Ground water flow is generally from the north to the south-southeast.

7322 Southwest Freeway, Suite 1000 • Houston, Texas 77074 • Tel: (713) 981-7140 • Fax: (713) 981-8821

Two criteria were used in selecting the wells to represent the ground water elevation and flow direction. The first is that they be installed in the silty sand layer which underlies the majority of the area represented in the figure. The second is a location outside the free-phase hydrocarbon plume. The ground water elevations used are indicated on the figure.

- Free-Phase Hydrocarbon Plume

The accumulations of free-phase hydrocarbon found were plotted to identify the extent of the plume. Figure 3 is a map of the site showing the estimated extent of the plume. The hydrocarbon thickness measured at each well is indicated on the figure.

Of particular interest is the fact that 0.02 feet of free-phase hydrocarbon was detected in Well MW-115. The plume has apparently migrated sufficiently to encompass the northern end of the former South Equalization Pond.

Analyses of Free-Phase Hydrocarbon Samples

Free-phase hydrocarbon samples were collected at Wells OW-3 and OW-5 on January 12, 1993. The samples were submitted under chain-of-custody to Southern Petroleum Laboratories, Inc. (SPL) of Houston, Texas for capillary G. C. (PIANO) analyses. A copy of the laboratory report and chain-of-custody form are attached.

The laboratory identified both hydrocarbon samples as diesel fuel. Amongst the numerous components identified in each sample are Naphthalene and 1-Methylnaphthalene. The concentrations, by liquid volume percent, found in the sample from Well OW-3 are 0.708% Naphthalene and 0.390% 1-Methylnaphthalene. The concentrations detected in the sample from Well OW-5 are 0.746% Naphthalene and 0.377% 1-Methylnaphthalene.

Summary of Results

It is our understanding that concentrations of dissolved Naphthalene and 1-Methylnaphthalene were previously detected in ground water samples collected at Well MW-115. The free-phase hydrocarbon plume shown on Figure 3 is a probable source for this contamination for the following reasons.

1) The wells from which the free-phase hydrocarbon samples were collected, Wells OW-3 and OW-5, are generally upgradient and in relative near proximity to Well MW-115.

2) Both of the dissolved phase components detected in ground water samples from Well MW-115, Naphthalene and 1-Methylnaphthalene, were detected in the free-phase hydrocarbon samples collected at Wells OW-3 and OW-5.

3) The free-phase hydrocarbon plume has apparently now migrated sufficiently to encompass the area of Well MW-115.

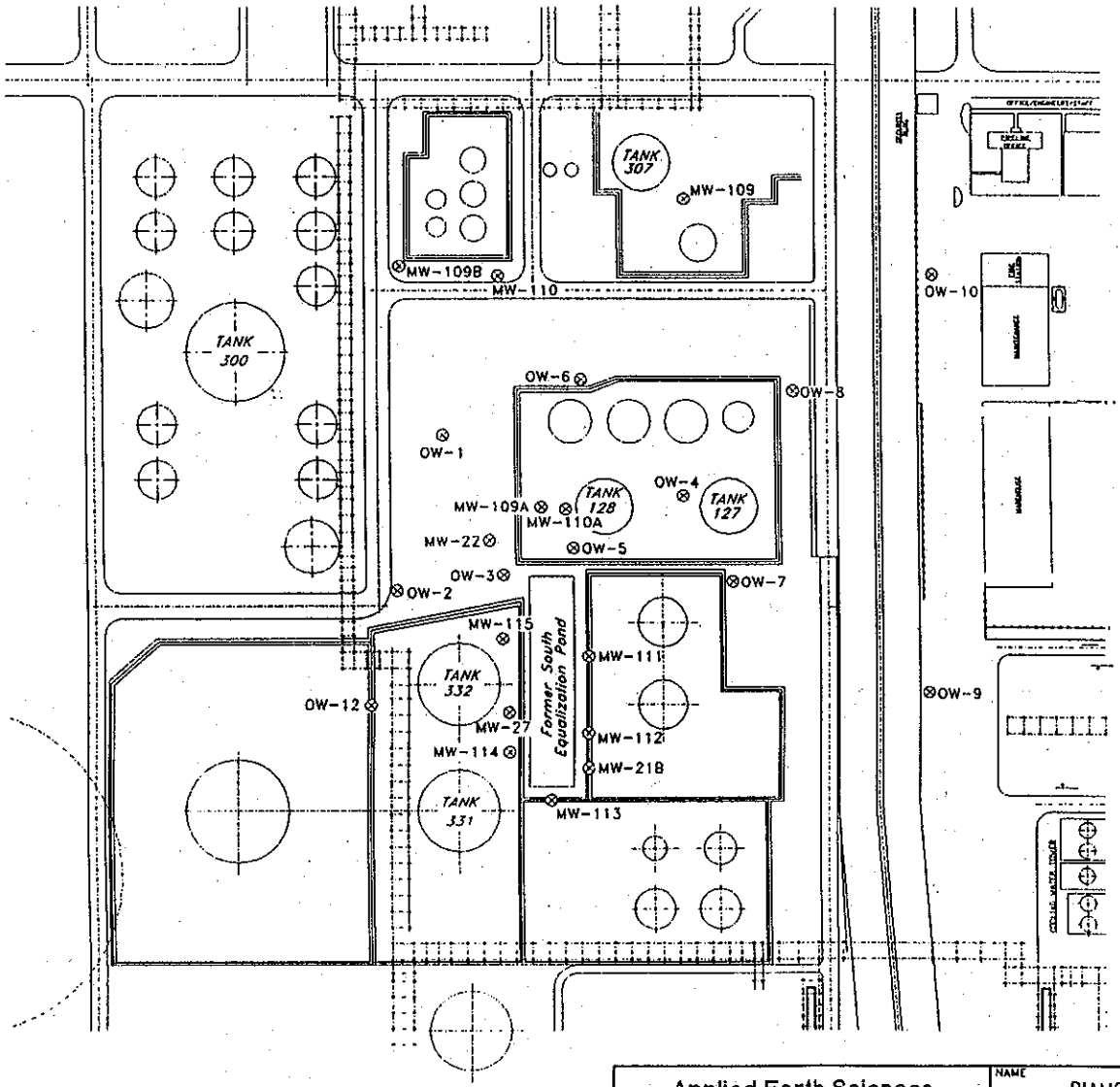
It is a pleasure to be of service to Diamond Shamrock. If there are any questions, please call me at (713)981-7140.

Sincerely,

John T. Londergan
Senior Hydrogeologist

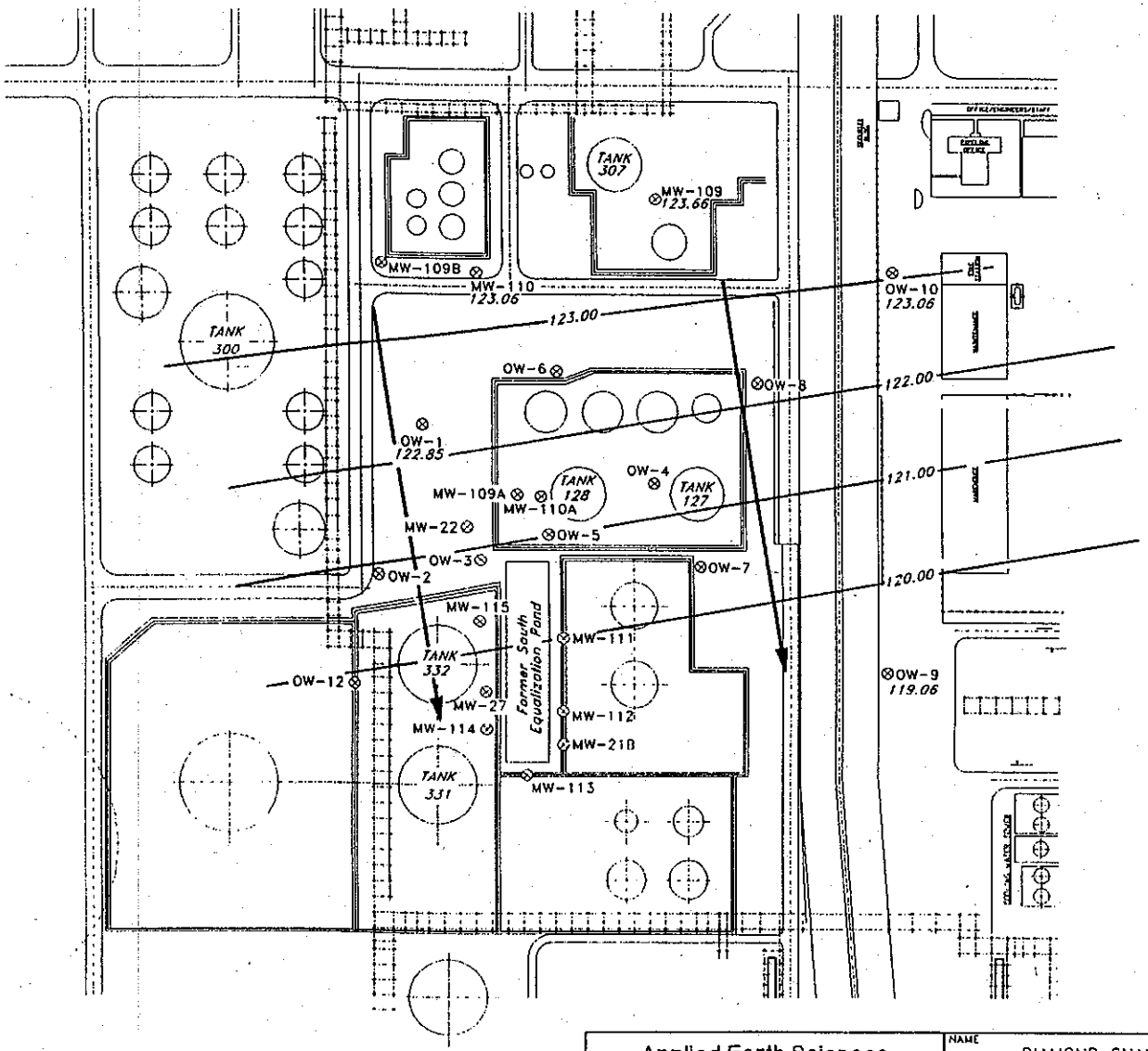
Attachments: Three figures
A laboratory report and
chain-of-custody form.

9325-01-09



Applied Earth Sciences	NAME: DIAMOND SHAMROCK Three Rivers Refinery Three Rivers, Texas	Site Map Showing Central Portion of the West Refinery	FIGURE 1
File No. 021-09325-01	MADE BY: R.G. DATE: 1-21-93		
	CHECKED BY: J.J. DATE: 1-21-93		

9325-01-08



LEGEND

- ⊗ Existing Monitor Well
- *123.06* Ground Water Elevation, ft.
- —*123.00*— Ground Water Elevation Contour, ft. Contour Interval 1.0 ft.
- → Apparent Ground Water Flow Direction

Notes:

(1) Well Locations are approximate.

(2) Fluid levels measured January 12, 1993

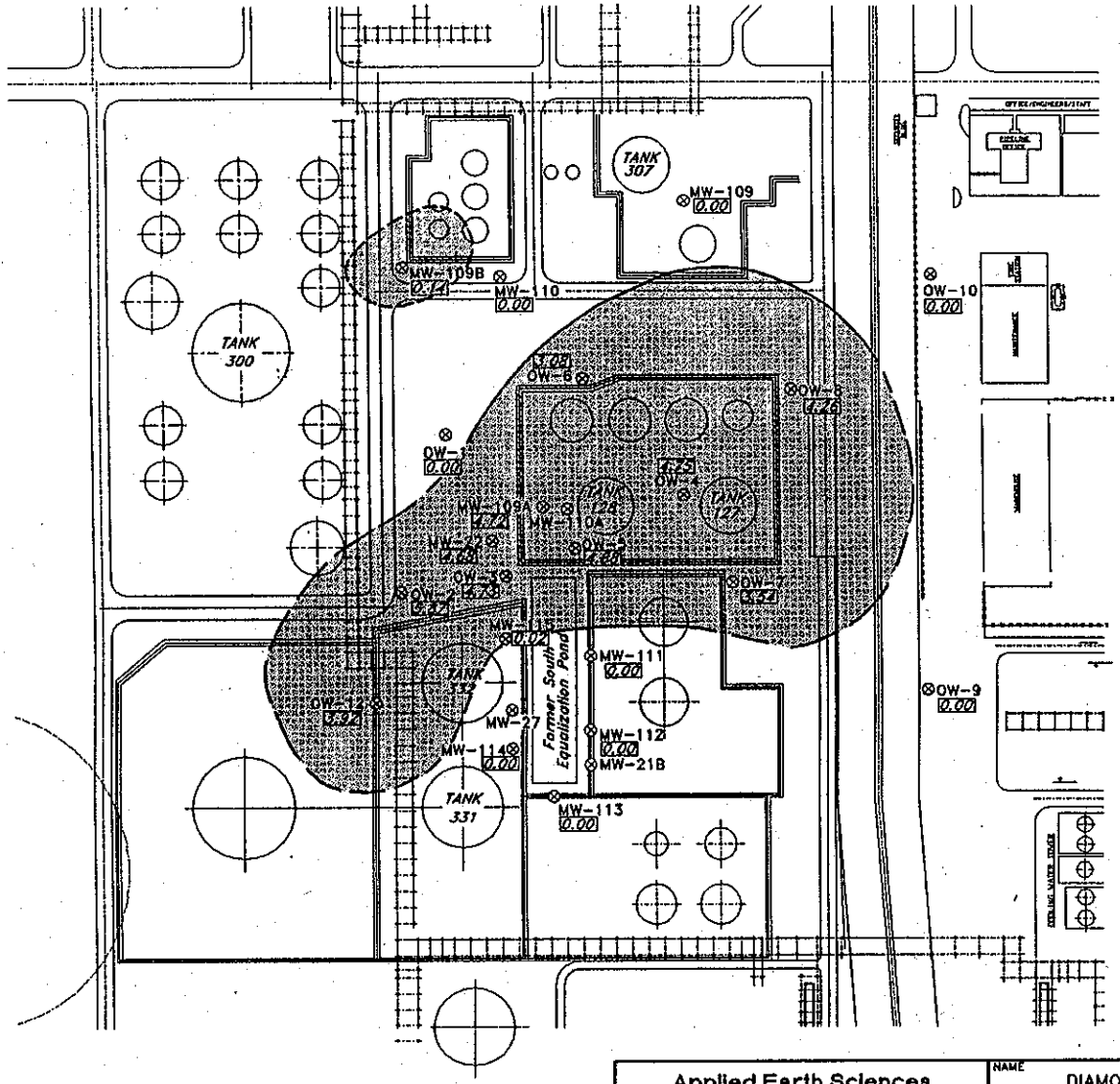
N

0 150

Scale in Feet

Applied Earth Sciences			NAME		FIGURE
File No. 021-09325-01	MADE BY: R.G. DATE: 1-25-93	CHECKED BY: J.J. DATE: 1-25-93	DIAMOND SHAMROCK Three Rivers Refinery Three Rivers, Texas	Ground Water Elevation Contour Map January 12, 1993	2

9325-01-07



LEGEND

- ⊗ Existing Monitor Well
- 3.54 Free-Phase Hydrocarbon Thickness as measured in the well, ft.
- Estimated Extent of Free-Phase Hydrocarbons based on fluid level measurements taken January 12, 1993.

Notes:

(1) Well Locations are approximate.

(2) Free-phase hydrocarbon thickness, as measured in a well, is typically 3 to 5 times greater than actual hydrocarbon thickness in the subsurface.

Applied Earth Sciences			NAME		FIGURE
File No. 021-09325-01	MADE BY: R.G.	DATE: 1-25-93	DIAMOND SHAMROCK Three Rivers Refinery Three Rivers, Texas	Site Map Showing Free-Phase Hydrocarbon Plume January 12, 1993	3
	CHECKED BY: J.L.	DATE: 1-25-93			

January 14, 1993

John Londergan
Appleid Earth Sciences, Inc.
7355 Southwest Freeway, Suite 1000
Houston, Texas 77074

Dear Mr. Londergan:

We have completed analysis of your samples 9325-OW5 and 9325-OW3.

Capillary G. C. (PIANO) Analysis indicates that both samples are clearly diesel fuel. The fuels are probably from the same source:

1. The PIANO Analyses are very similar.

2. Carbon Number distributions are very similar. The Methane in each sample is probably due to biodegdation (with sample OW5 being more severe).

3. Pristane is present in both samples while Phytane is very low or not present.

Thank you for this opportunity to be of service.

Sincerely,

JC Winfrey Jr

J. C. Winfrey
Director Hydrocarbon Services
Southern Petroleum Labs., Inc.

ml

attachments

HR/RC/PE
TXD990709966

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS 2 COMPLIANCE PLAN MODIFICATION
COMPLIANCE PLAN NO. CP-50100-000
DIAMOND SHAMROCK REFINING COMPANY, L.P.

Compliance Plan No. CP-50100 is hereby modified as follows:

I.B. SIZE AND LOCATION OF FACILITY (Page 3 of 35)

The Compliance Plan is specific to Pond 2 (NOR 18), Pond 3 (NOR 032) and Pond 4a (NOR 19) that were closed as single RCRA-regulated landfill. The closed landfill is designated as Waste Management Area 3 and depicted in Attachment A, Sheet 2, for which the groundwater Compliance Monitoring Program applies pursuant to 30 TAC §335.165.

VI.B.1. GROUNDWATER MONITORING PROGRAM - SAMPLING AND ANALYSIS PLAN (Page 13 of 35)

Wells shall be sampled according to the Sampling and Analysis Plan dated August 22, 2002. The Sampling and Analysis Plan is hereby incorporated into the Compliance Plan by reference as if set out fully herein.

Page 30 of 35 (see attached replacement page)

Page 33 of 35 (see attached replacement page)

Page 34 of 35 (see attached replacement page)

Attachment A, Sheet 3 of 5 (see attached replacement page)

This Class 2 Modification is part of Compliance Plan No. CP-50100 and should be attached thereto.

Issued: DEC 13 2002

Margaret Hoffman
For the Commission

TABLE IA
Compliance Monitoring Program
Waste management Area 3

Table of Hazardous and Solid Waste Constituents and
Practical Quantitation Limits or Background Values for Compliance Monitoring

COLUMN A Hazardous Constituents	COLUMN B Practical Quantitation Limits (mg/l) Or Background Values
Inorganics	
Antimony	N.D.(0.01)
Arsenic	0.10[BG]
Barium	0.17[BG]
Beryllium	N.D.(0.01)
Cadmium	0.07[BG]
Chromium	N.D.(0.01)
Cobalt	N.D.(0.01)
Mercury	N.D.(0.01)
Selenium	N.D.(0.01)
Vanadium	0.15[BG]
Volatile Organincs	
Benzene	N.D.(0.005)
Carbon Disulfide	N.D.(0.005)
Chlorobenzene	N.D.(0.005)
Chloroform	N.D.(0.005)
1,2-Dichloroethane	N.D.(0.005)
1,4-Dioxane	N.D.(0.005)
Methyl Ethyl Ketone	N.D.(0.005)
Styrene	N.D.(0.005)
Toluene	N.D.(0.005)
Xylenes	N.D.(0.005)
MTBE	N.D.(0.005)
Semi-Volatile Organics	
Ethylbenzene	N.D.(0.01)
Ethylene dibromide	N.D.(0.01)
Anthracene	N.D.(0.01)
Benzo(a)anthracene	N.D.(0.01)
Benzo(k)fluoranthene	N.D.(0.01)
Benzo(a)pyrene	N.D.(0.01)

TABLE IIA
Compliance Monitoring Program
Waste Management Area 3

Table of Detected Hazardous Constituents and Concentration Limits
for the Ground-Water Protection Standard for Compliance Monitoring

COLUMN A Hazardous Constituents	COLUMN B Concentration Limits (mg/l)
Lead	0.05[MCC]
Nickel	0.73[MSC]
Arsenic	0.05[MSC]
Cobalt	2.20[MSC]
Selenium	0.05[MSC]
Vanadium	0.26[MSC]

MCC Maximum Concentration of Constituents (MCC) for Ground-Water Protection specified in Table I of 30 TAC §335.160.

MSC Alternate Concentration Limit pursuant to 30 TAC §335.160(b) based upon the Medium-Specific Concentration (MSC), Residential Risk Reduction Standard No. 2 specified in 30 TAC §335 Subchapter S.

TABLE III

Designation of Wells by Function

POINT OF COMPLIANCE WELLS

1. Waste Management Area 3

MW-34R MW-35R MW-38

2. South Equalization Pond

MW-113A MW-114A MW-115A

BACKGROUND WELLS

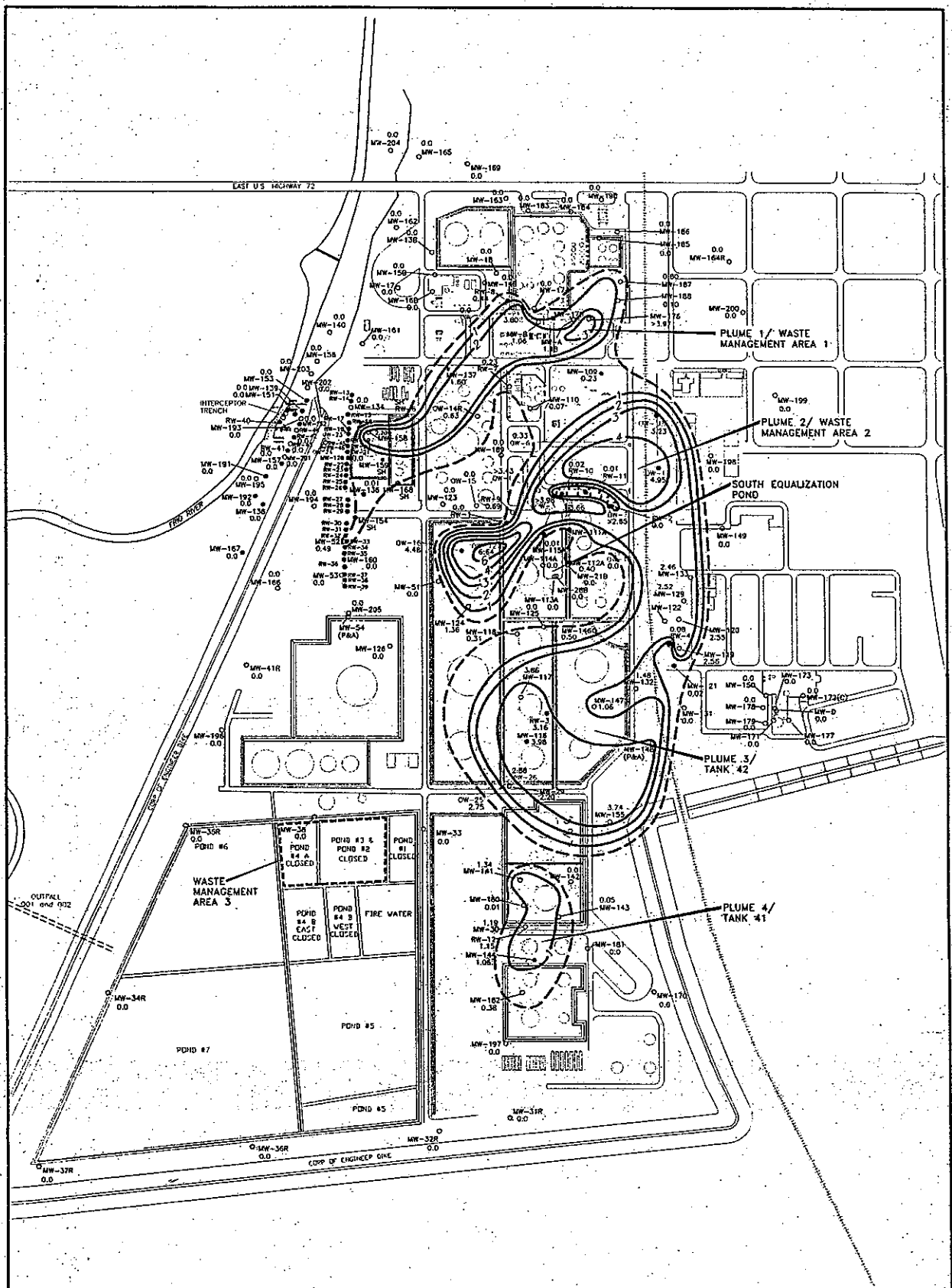
1. Waste Management Area 3

Interim period (i.e., prior to a CP modification): MW-33 and New Well

2. South Equalization Pond

MW-109 MW-110

Note: Wells and piezometers identified on Attachment A maps that are not listed in Table III are subject to change, upon approval by the Executive Director, without modification to the Compliance Plan.



Map Source: Basemap from Diamond Shamrock, Three Rivers Refinery, Drawing No. 980AP1, 5/18/98.

13°45'
TRUE NORTH
PLANT NORTH

0 200 400
FEET

EXPLANATION

- MW-29 ○ MONITORING WELL LOCATION AND IDENTIFICATION NUMBER
- OW-1 ○ OBSERVATION WELL LOCATION AND IDENTIFICATION NUMBER
- RW-7 ○ RECOVERY WELL LOCATION AND IDENTIFICATION NUMBER
- RW-4 ● ACTIVE RECOVERY WELL LOCATION AND IDENTIFICATION NUMBER
- MW-160 ● ACTIVE HYDROSKIMMER WELL LOCATION AND IDENTIFICATION NUMBER
- MW-138 ● ACTIVE AIR SPARGING WELL LOCATION AND IDENTIFICATION NUMBER
- RW-1 ● PASSIVE HAND BAILING WELL LOCATION AND IDENTIFICATION NUMBER
- 2 LNAPL CONTOUR THICKNESS (DEC. 2001)
- EXTENT OF LNAPL (DEC. 2001)
- 0.49 LNAPL CONCENTRATION
- SH SHEEN
- EARTHERN BERMS
- ROADWAY

COMPLIANCE PLAN No. CP-50100
DIAMOND SHAMROCK
REFINING COMPANY, L.P.
THREE RIVERS REFINERY

PROJ. NO.:DIA-SHA | DATE: 12/27/01 | FILE: DIA-B48

ATTACHMENT A, SHEET 3 of 5

PLUME LOCATION MAP

JDC JD Consulting, L.P.
404 Camp Craft Road
Austin, Texas 78746

6PD-O

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

NOTICE OF APPLICATION FOR RENEWAL OF HAZARDOUS WASTE PERMIT AND RENEWAL/MAJOR AMENDMENT OF COMPLIANCE PLAN

PERMIT NO. HW-50100 COMPLIANCE PLAN NO. CP-50100

APPLICATION. DIAMOND SHAMROCK REFINING COMPANY, L.P., (Three Rivers Refinery), 301 Leroy Street, Three Rivers, Live Oak County, Texas 78071, an oil refinery that produces gasoline, has applied to the Texas Natural Resource Conservation Commission (TNRCC) for renewal of hazardous waste permit HW-50100 which authorizes post-closure care for the South Equalization Pond, and renewal/major amendment of compliance plan CP-50100. The renewal requires continued corrective action and groundwater monitoring at the North Equalization Basin. The major amendment would add compliance monitoring at four out-of-service wastewater impoundments (Ponds 1-4), corrective action at the closed South Equalization Pond and stabilization/interim corrective measures at two sumps, to the existing compliance plan.

The Executive Director of the TNRCC has prepared a draft permit and compliance plan which, if approved, would establish the conditions under which the facility must operate.

PUBLIC COMMENT / PUBLIC MEETING. Written public comments and requests for a public meeting should be submitted to the Office of the Chief Clerk at the address provided in the information section below, within 45 days of the date of newspaper publication of the notice. A public meeting is intended for the taking of public comment, and is not a contested case hearing. A public meeting will be held if the Executive Director determines that there is a significant degree of public interest in the application or if requested in writing by an affected person within 45 days of the date of newspaper publication of the notice.

CONTESTED CASE HEARING. The TNRCC may grant a contested case hearing on this application if a written hearing request is filed within 45 days from the date of newspaper publication of this notice. The Executive Director may approve the application unless a written request for a contested case hearing is filed.

To request a contested case hearing, you must submit the following: (1) your name (or for a group or association, an official representative), mailing address, daytime phone number, and fax number, if any; (2) applicant's name and permit number; (3) the statement "[*I/we*] request a contested case hearing;" (4) a brief and specific description of how you would be affected by the granting of the application in a way not common to the general public; and (5) the location and distance of your property relative to the proposed activity. You may also submit your proposed adjustments to the

application/permit which would satisfy your concerns. Requests for a contested case hearing must be submitted in writing to the Office of the Chief Clerk at the address provided in the information section below.

If a hearing request is filed, the Executive Director will not issue the permit and will forward the application and hearing request to the TNRCC Commissioners for their consideration at a scheduled Commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

INFORMATION. Written hearing requests, public comments, or requests for a public meeting should be submitted to the Office of the Chief Clerk, MC 105, TNRCC, P.O. Box 13087, Austin, TX 78711-3087. For information concerning the hearing process, please contact the Office of Public Interest Counsel, MC 103, the same address as above. Individual members of the general public may contact the Office of Public Assistance, c/o Office of the Chief Clerk, at the address above, or by calling 1-800-687-4040 to: (a) review or obtain copies of available documents (such as draft permit, technical summary, and application); (b) inquire about the information in this notice; or (a) inquire about other agency permit applications or permitting processes. General information regarding the TNRCC can be found at our web site at www.tnrcc.state.tx.us.

Issued: January 15, 1999

(SEAL)

LaDonna Castañuela, Chief Clerk
Texas Natural Resource Conservation Commission